

The following are CDM's comments on the HASP prepared by MWH to support the OU3 Phase 1 Sampling efforts:

- Section 1.0 Introduction: Paragraph 1 states the plan is for MWH employees only and not for Grace or Grace's other contractors. Will Grace and/or its subs be present on the mine during the execution of the SAP this fall? If so, will Grace need to submit their own HASP? What about subcontractors to MWH will they also be submitting their own HASP?
- Paragraph 2, Page 5 states no respiratory protection is needed for work beyond ridgeline of Grace's property boundary. This statement is inconsistent with statement in Section 8.1 Paragraph 4 that says bark samplers outside the mine property shall wear half-face respirators. Also, there is a statement that no respiratory protection beyond the ridgeline is needed based on stationary air monitoring data gathered during Sept 2007. CDM would recommend that this decision be based on a negative exposures assessment using personal air samples collected during each sampling task it has been observed at the site the stationary air monitors underestimate personal exposure levels.
- Section 3.2.5 Site Visitors: CDM would recommend that all site visitors be required to attend an H&S Primer/Briefing prior to going within the exclusion zone at the mine.
- Section 3.2.6 Accident Reports: All accidents and incidents should also be reported in writing to either the Volpe representative, the EPA representative or the lead project H&S officer
- Section 4.2.1 Hazards Identified/Created by MWH: Notice of the hazards discussed in this section should also be communicated to Volpe, EPA or the lead H&S officer to ensure Volpe/EPA/CDM and removal contractors are aware of theses hazards. There should be some level of formal communication about the activities that Volpe is performing on the mine property hauling residential soils, traffic control, and communications. How with the MWH activities will be integrated with existing operations conduced on the mine road.
- **Section 4.2.2** Hazards Identified/Created by third: Same as comment above.
- **Section 5.1** Daily Tailgate meetings: Please indicated who is responsible for conducting, leading, logging these meeting.
- Section 7.2 Bears, mountain lions, and other or wild animals should be included as a site specific hazard



9/14/07 Page 1 of 2

SUBMITTED TO:

Clay Bock MWH Americas, Inc. 175 W. Jackson Blvd.; Suite 1900 Chicago, IL 60510

REFERENCE DATA

Client Sample No.:

WRGN(M)9-12-07 through WRGBLANK

P.O. No.:

Not Available

Sample Location:

Montana

Sample Type:

MCE Filters

Method Reference:

Airborne Asbestos by TEM,

EPA AHERA Enhanced Protocol (Level II)

DCL Set ID No.:

07-T-5200

DCL Sample ID No.:

07-30055 through 07-30058

Date Received:

9/14/2007

Preparation Date:

9/14/2007

Analysis Date:

9/14/2007

SAMPLING DATA

ANALYSIS DATA

Filter Type:

MCE, 0.8 µm

Magnification:

15,900 X

Filter Size:

25 mm

Calibration Constant:

 $1 \text{ cm} = 0.63 \mu\text{m}$

Collection Area:

385 mm²

EDXA Resolution:

159.32 eV

Accelerating Voltage:

100 keV

Camera Constant:

31.97 mm-Å

We certify that the samples indicated on the following data sheet(s) were analyzed by Transmission Electron Microscopy (TEM) for airborne asbestos using the enhanced AHERA protocol published in 40 CFR Part 763 dated October 30, 1987. Structure sizes were measured as described in the Yamate Level II method. Analysis was performed on a Philips CM-12 TEM with EDAX Genesis System providing energy dispersive Xray analysis (EDXA) capabilities. If the sample set deviates from any AHERA requirements, interpretation of the results under strict EPA AHERA regulations cannot be made.

Results apply only to portions of samples analyzed and are tabulated on the following data sheet(s). Representative EDXA spectra and selected area electron diffraction (SAED) measurements of asbestos types detected are included. The analytical sensitivity (AS) for this method has been determined to be one asbestos structure in the total area analyzed. The area analyzed is dependent on the sample air volume. Concentrations in structures/mL are based on air volumes or times and flow rates provided by the client.

Angela Sohn

Analyst

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CINCINNATI OFFICE 4388 GLENDALE-MILFORD ROAD CINCINNATI, OHIO 45242-3708 513 733-5336, FAX 513 733-5347

WEST COAST OFFICE 11 SANTA YORMA COURT NOVATO, CALIFORNIA 94945 800 280-8071, FAX 415 893-9469

DataChem Laboratories TEM AHERA Test Report

DCL Sample Set ID: 07-T-5200 Client: MWH Americas, Inc. Sample Location: Montana 9/14/07 Page 2 of 2

SAMPLE IDENTIFICATION			•	
Client ID:	WRGN(M)9-12-07	WRGE91207	WRGW91207	WRGBLANK
DCL ID:	07-30055	07-30056	07-30057	07-30058
Volume (L):	960.00	960.00	960.00	NA
No. Openings Analyzed:	8	8	. 8	10
Avg. Grid Opening Area:	0.0105	0.0105	0.0105	0.0105
RL (Structures/mm ²):	11.90	11.90	11.90	9.52
AS (Structures/mL):	0.0048	0.0048	0.0048	NA
Asbestos Structures <5 µm				
Chrysotile:	0	0	0	. 0
Amosite:	0	0	0	0
Crocidolite:	0	. 0	0	0
Actinolite-Tremolite:	0	0	0	0
Anthophyllite:	0	0	0	0
Total Asbestos <5 µm				
Count:	0	0	0	0
Structures/sq. mm:	<rl< td=""><td><rl< td=""><td><rl< td=""><td><rl< td=""></rl<></td></rl<></td></rl<></td></rl<>	<rl< td=""><td><rl< td=""><td><rl< td=""></rl<></td></rl<></td></rl<>	<rl< td=""><td><rl< td=""></rl<></td></rl<>	<rl< td=""></rl<>
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Asbestos Structures ≥5 µm			•	
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Amosite:	0	0	0	0
Crocidolite:	0	0	. 0	0
Actinolite-Tremolite:	0	0	0 .	0
Anthophyllite:	0	0	0	0
Total Asbestos ≥5 µm				
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Structures/mL:	<as< td=""><td><as< td=""><td><as< td=""><td>NA</td></as<></td></as<></td></as<>	<as< td=""><td><as< td=""><td>NA</td></as<></td></as<>	<as< td=""><td>NA</td></as<>	NA
Total Non-asbestos Fibers:				
Count:	1	2	ND	ND
Types:	Fe-Al-Si	Cellulose		•
		Fe-Ca-Mg-Al-Si		

ND = None Detected

AS = Analytical Sensitivity

RL = Reporting Limit

Comments: None.

Angela Sohn Analyst Anna Marie Ristich

Reviewer

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ANALYTICAL REQUEST FORM

REGULAR Status (5 working days from receipt) RUSH Status Required - ADDITIONAL CHARGE

RESULTS REQUIRED BY_ CONTACT DATACHEM LABS PRIOR TO SENDING SAMPLES

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4388 Glendale Milford Road / Cincinnati, OH 45242 • 800-458-1493 or 513-733-5336 / Fax: 513-733-5347

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DCL Sample No.: 07-30055

Client Sample No.: \(\omega \omega \omeg

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DCL Sample No.: 07-30056

Client Sample No.: WAGE 91207

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